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Contents Lists and Abstracts from the China Journal "Technology of Adhesion & Sealing"

Technology on Adhesion & Sealing

Vol. 15 No. 1 1994

Serial No. 83

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The Preparation of VAc/BA/MMA Three-component Copolymer and the Relationship of Product's Bonding Strength with Polymerization Method

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Chang chun Building Materials Industry school

Abstract

In this paper, two preparation methods of VAc/BA/MMA three-component copolymer were introduced, and that the polymerization method has evident influence on the bonding strength of three-component copolymer was demonstrated by experiment.

KEY WORDS Copolymerization System; Shearing Strength; Solution Copolymerization; Emulsion Copolymerization.

The Properties and Applications of Polyamide Resin for Hot-melt Adhesive

Wang XIAOMEI, Zhang ZHIYING and Du GUIPING

Tianjin Yanan Chemical Industry Factory

Abstract

In this paper, the properties and preparation methods of new hot-melt polyamide adhesives discovered in recent years, and their applications in textile fabric, metal, plastic and others were described.

KEY WORDS Polyamide; Hot-melt Adhesive; Synthesis.

Advance in Synthesis of Polyurethane Photosensitive Prepolymer

Zhu HUI, Lin ZHONGQIANG and Shi FAKUAN

Redstar Chemical Research Institute Hubei

Abstract

The various structure and synthesis ways of polyurethane photosensitive prepolymers were introduced in this paper, as well as their basic properties and uses were explained briefly.

KEY WORDS Polyurethane; Synthesis; Prepolymer; Photosensitive Resin

The Preparation of Water-Based Sealant for Automobile

Liu FANGFANG and Li SHUMIN

The Chemical Engineering Department of Hebei Light Industry and Chemical Technology Institute

Abstract

By study of various fillers and added amounts, a water-based sealant in use for whole sealing on light car has been prepared. Its properties are that replacing organo-solvent with water, economy of energy, reducing pollution, long storage and lower price.

KEY WORDS Water-based Adhesive; Sealant; Automobile-sealing.

The Study on the Modification of PAE with Melamine-Formaldehyde Resin

Mu YINGZHU and Lan LIWENG

Chemical Engineering Department of Northwestern Polytechnical University

Abstract

The results of this paper have shown that it is possible to improve the water-proofing and adhesive strength of PAE with melamine-formaldehyde resin.

KEY WORDS Melamine-formaldehyde; PAE; Waterproof; Modification.

Release Agent for Pressure-sensitive Adhesive Tapes

Zhang SHUCHENG

Abstract

This paper introduced some release agents for pressure-sensitive adhesive tapes, with emphasis on the factors affecting the properties of silicone release agent on preparing technology.

KEY WORDS Release Agent; Pressure-Sensitive Adhesion Tapes; Silicone.

The Application of Adhesion Technology in the Antirust Metal Products

Xie QINYUAN

Jiang Xi Navigation Instrument Factory Jiang Xi Rui Chang

Abstract

This paper introduced the use of adhesion technology in antirust store. Including antirust box. Peelable plastic protection film. Gaseous antirust paper, etc. The methods of preparation and technology were detailed.

KEY WORDS Adhesion; Technology; Sealing; Metal Antirust.

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Modification of Solvent Free Epoxy Adhesives by Polymer Powder

Guan CHANGSHEN and Zhang BIN

The Institute of Petrochemistry, Heilongjiang Academy of Science

Abstract

Some deficiencies exist in some free epoxy adhesive systems. The brittleness, one of these deficiencies, has not been improved successfully by inorganic filler or organic additive (telomers or plasticizers). But it was found that the modification by polymer powder fillers was effective.

KEY WORDS Solvent free epoxy adhesive; Toughness; Filler Telomer; Polymer powder Additive.

Study of Polymerization Methods on AN/BA Composite Polymer Emulsion

Zhang HONGTAO, Li JIANGZONG, Ai ZHAOQUAN and Li XIAOQIN

Hubei University, Wuhan

Abstract

The AN/BA composite polymer emulsions were prepared using three different feed methods and two feed sequences. The rheology, stability against electrolytes, particle size and dispersity of the latexes as well as resistance to solvents of the latex film were determined, and also the effect of polymerization method on properties of latexes were discussed.

KEY WORDS Composite polymer emulsion; Polymerization method; Stability against electrolyte.

Synthesis of Self-Curing Resins and Analysis of the Properties for Foundry

Ren ZHENGMAO

Gan su Friction & Sealig Factory

Abstract

The paper introduced the synthesis principle and synthesis process of self-curing phenolic resin, phenol-modified furane resin and UF modified resin for foundry, and analyses of its properties.

KEY WORDS Self-curing Resin; Synthesis; Analysis; Foundry.

Study on Light Curing Methacrylate Resin Polyurethane Adhesive

Sun YAN, Yu SHENGQUAN and Min LIANSHENG

Dalian Polyurethane Co. LTD., Dalian

Abstract

A methacrylate resin polyurethane adhesive was synthesized by the reaction of methacrylate with excessive polyisocyanate. The adhesive can be cured with light and the cured resin has good mechanical properties and storage stability. The effects of some factors on the synthetic course and curing properties were studied.

KEY WORDS Light curing adhesive; Polyurethane; Methacrylate resin.

The Effects of Radiation Grafting on the Properties of Hot Melt Adhesive

Tian LI and Liu HUIQING

Radiation Chemistry Research Institute, Jilin City

Abstract

The method of modification of the hot melt adhesive by radiation grafting and the properties of the modified adhesive were introduced.

A New Maize Starch Adhesive

Zhang GONGZHENG

College of Chemical Engineering and Material Science, Beijing Institute of Technology, Beijing

Abstract

In this paper the technological process and formula of a new maize starch adhesive containing PVA were introduced, and the effects of oxidant and complexing agent were discussed.

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Study on CR/MMA Graft Adhesive

Weng WUJUN Liu FENG, Peng WANGDA and Zhang REN

National University of Defense Technology

Abstract

In this paper, effects of reaction temperature, content of initiator and monomer, concentration of system on graft copolymerization of methyl methacrylate (MMA) onto chloroprene rubber (CR) were studied. The best reaction condition was achieved by orthogonal design.

KEY WORDS Adhesive; Chloroprene; Rubber; Graft copolymerization.

Study on the Hot-melt Adhesive Modified with Paraffin Wax

Li YAN, Jin SONGHE and Wu ZHICHAO

Huazhong University of Science and Technology

Abstract

The formulation and properties of the hot-melt adhesive modified with paraffin wax were researched. It was showed that the adhesion effect of the hot-melt adhesive exceeded other existing adhesives for full mold process.

KEY WORDS Paraffin wax; Hot-melt adhesive; Full mold process.

A Study on Urea-formaldehyde Resin Adhesive for Special Use in Production of Poplar Plywood

Liu QIMING and Lu XIAONING

College of Wood Science and Technology, Nanjing Forestry University

Abstract

Fast-growing poplar has been used in the production of plywood in recent years, but there are many problems to be resolved, *e.g.* low bonding strength which easily causes blisters in the manufacture of plywood and its products, and decreases aspen-plywood quality and yield. This article discusses the properties of the wood, and develops a UF adhesive for the poplar plywood production.

KEY WORDS Poplar plywood; pH Value of wood; Buffering capacity; Urea-formaldehyde resin.

Study on A New Light Curing Sealant

Zhu HUI, He YONGZHU and Chen WEI

Abstract

A new light curing sealant was studied, and the various effects which certain factors have on it were discussed in this paper.

KEY WORDS Photosensitizer; Light curing sealant; Photosensitive Prepolymer.

Natural Rubber Latex pressure Sensitive Adhesive

Du GUANBEN

Abstract

This paper is a basic introduction on natural rubber latex pressure sensitive adhesive. The advantages and problems associated with some modified compositions are introduced in the end of this paper.

KEY WORDS Natural rubber latex; Pressure sensitive adhesive.

Study on Pilot Test and Properties of Light-Coloured Rosin Esters

Liu GUOZHEN, Wang XINGFENG, Zeng GUANGJIAN, Fan DEMING and Lin LI

Guangzhou Institute of Chemistry, Academia Sinica

Abstract

The rosin glycerol ester and rosin pentaerythritol ester are made by adding light-coloured agent. The colour grade of the esters is 5 ~ 6 and 4 ~ 7 (Gardner 1963), respectively. The heat resistance and oxidation stability of the products are superior to the original rosin esters. The products can significantly improve the quality of the chemicals which is correlative to the esters.

KEY WORDS Rosin ester; Light-coloured agent; Colour grade; Oxidation stability.

IPN Adhesive

Geng KUIISHI

Tianjin Commercial College

Abstract

This paper gives a brief summary of the character of IPN adhesives, then presents first the variety and finally a review of the adhesive of IPN polyurethane.

Study on Cold Using Adhesive for Printing and Bookbinding

Wong BIN, Chen ZHONGHUA Qi SHUYIN Zhang QIANZHI Li SHIJIE

Department of Military Supply, Wuhan College go Military

Abstract

High speed glueing operation in bookbinding requires an adhesive having a high degree of initial wet tack. This paper provides a new adhesive with high wet tack and no tendency to gel at room temperature by a series of experiments. It comprises polyvinyl alcohol resin and water soluble boride without the need for a strong acid or polyols to prevent gelation of the system. It is applicable to high speed bookbinding with convenience and low cost.

KEY WORDS Adhesive Polyvinyl alcohol; Boride Adhesive for printing and bookbinding.

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